The implementation of control diagram is being studied at reception of Metaxa cognac orders in boxes of 6 bottles at distribution store. The control diagram will measure the degree of filling of the bottles. The sample was formed from 24 bottles contained in four boxes. Each bottle has a beverage volume of $V = 700\text{ mL}$.

As the data distribution is observed, the sample with $n = 23$ elements is described with smaller errors than the $T$ distribution compared to the normal distribution.

The deviations between the experimental and normal distributions are reduced for the sample by $n = 36$. As a result, the limits of the control diagram will be established with the data of this sample. $700 \pm 1.00 \text{ mL}$.

Upon receipt of the batch of 20 boxes of 6 bottles, it is found that all samples fall within the established control limits.